BRCA1 and BRCA2 analysis.
Because knowledge is a powerful tool.
HEREDITARY BREAST AND OVARIAN CANCER

Patients with BRCA mutations are at increased risk for breast, ovarian, and other cancers.

- Mutations in BRCA1 and BRCA2 account for the vast majority of families with Hereditary Breast and Ovarian Cancer Syndrome (HBOC).¹
- The estimated lifetime risk of breast cancer in women with BRCA1 mutations is 46-87%; for BRCA2, the risk is 38-84%.²
- The risk of ovarian cancer is 39-63% for a woman with BRCA1 and 16.5-27% with BRCA2.²
- Both men and women with mutations in BRCA1/2 may also be at increased risk of other cancers, including pancreatic, prostate, and melanoma.²

1 in 40
Approximately 1 in 40 Ashkenazi Jewish individuals carries one of three founder mutations.²

1 in 400
The overall prevalence of BRCA1 and BRCA2 mutations in the general population is estimated at 1 in 400² and varies with ethnicity.

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**Estimated lifetime cancer risk for individuals with BRCA1 and BRCA2 mutations²**

<table>
<thead>
<tr>
<th>Cancer type (General population risk %)</th>
<th>Range of risk</th>
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</thead>
<tbody>
<tr>
<td>Female breast cancer (12%)</td>
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<tr>
<td>Ovarian cancer (1-2%)</td>
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<tr>
<td>Male breast cancer (0.1%)</td>
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<tr>
<td>Prostate cancer (6% through age 69)</td>
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<tr>
<td>Pancreatic cancer (0.5%)</td>
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</tbody>
</table>

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

BRCA1 BRCA2

Adapted from Petrucelli, N et al. BRCA1- and BRCA2-Associated Hereditary breast and Ovarian Cancer. Gene Reviews
Knowing your patient’s BRCA mutation status may assist in developing tailored prevention and treatment strategies.

NCCN® and ACOG recognize the importance of testing for BRCA1 and BRCA2 mutation.

INDICATIONS FOR BRCAssure TESTING

Consider BRCAssure testing for your patients if their personal or family history has one of the following indications:

- Breast cancer diagnosed at age 45 or younger
- Ovarian cancer
- Both breast and ovarian cancer
- Two primary breast cancers, the first diagnosed at age 50 or younger
- Male breast cancer
- Triple-negative breast cancer diagnosed ≤60 years of age
- Pancreatic or aggressive prostate cancer with 1 or more relatives with ovarian cancer or breast cancer ≤50 years of age; or, 2 or more relatives with breast, pancreatic, or prostate cancer
- A previously identified BRCA1 or BRCA2 mutation in the family
- Ashkenazi Jewish ancestry and a relative with breast or pancreatic cancer
- Two or more relatives with breast cancer, one under age 50
- Three or more relatives with breast cancer at any age


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GENETIC COUNSELING IS HIGHLY RECOMMENDED WHEN BRCA TESTING IS OFFERED AND AFTER RESULTS ARE PROVIDED

One of the largest national commercial genetic counseling teams is available to help patients make informed healthcare decisions.

Call 855-GC-CALLS (855-422-2557) to learn more about our exceptional services or visit www.integratedgenetics.com/genetic-counseling.
A continuity of care, pioneering science, professional service

We provide the scientific expertise you need, and the customer experience patients want.

RAPID RESULTS

Samples have a typical turnaround time of 3 weeks after a test arrives at our lab.

EXTENSIVE MANAGED CARE CONTRACTS

Help patients maximize their benefits. Where applicable, Integrated Genetics can initiate prior authorization for Hereditary Cancer testing with or without a specimen.

CONVENIENT BLOOD DRAWS

We have a nationwide network of patient service centers, allowing for convenient access to sample collection. Visit www.LabCorp.com to find your nearest location.

CONFIRMATORY TESTING FOR DIRECT TO CONSUMER RESULTS

Our Hereditary Cancer portfolio provides the testing options needed to confirm patient results from direct to consumer genetics laboratories as appropriate.

WOMEN’S HEALTH AND WELLNESS

As a subsidiary of LabCorp, Integrated Genetics provides access to a complete women’s health offering featuring a full range of testing and services that support the continuity of care for your patients through a single laboratory.

REFERENCES